

1300 Eye Street N.W.
Washington, DC 20005
Telephone: 202.659.0100
Facsimile: 202.659.0105
www.novakdruce.com

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of Correction

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• **Comments:**

In re application: QUEISSER et al.
Application Serial No.: 10/692,334
Patent No.: 6,852,662
Issued: February 8, 2005

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: QUEISSER et al.

Art Unit: 1713

Patent No.: 6,852,662

Examiner: C. Caixia LU

Issued: February 8, 2005

Confirmation No.: 9117

For: CATALYST SYSTEMS BASED ON
TRANSITION METAL COMPLEXES
FOR CARBON MONOXIDE
COPOLYMERIZATION IN AN
AQUEOUS MEDIUM

Attorney Docket.: 49169-02

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Sir:

Applicants herewith submit a Certificate of Correction Form PTO/SB/44. It is respectfully requested that the Certificate of Corrections be entered.

The changes noted on the Certificate of Correction Form PTO/SB/44 correct the errors which occurred on the part of the U.S. Patent and Trademark Office. No fee should therefore be required.

It is not believed that a fee is required for filing of this paper. However, please charge any shortage in fees due in connection with the filing of this paper to Deposit Account No. 14.1437. Please credit any excess fees to such deposit account.

Respectfully submitted,

Jason D. Voight
Jason D. Voight

Registration No.: 42,205

Date: April 4, 2006Novak Druce DeLuca & Quigg, LLP
1300 I Street, N.W., 400 East Tower
Washington, DC 20005
Telephone (202) 204-4746
Facsimile: (202) 659-0105

PTO/SB/44 (04-05)

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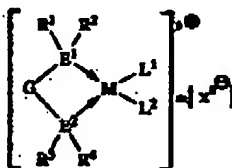
UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 6,852,662
APPLICATION NO. : 10/692,334
ISSUE DATE : February 8, 2005
INVENTOR(S) : QUEISSER et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 1, column 14, line 57-58, after "formula II" and prior to "where" insert



column 15, line 1, " C_5 " should read — C_6 —; and

column 15, line 29, before "optionally" insert —b)—.

Claim 2, column 15, line 40, " (F^2) " in formula should read — (R^2) —;

column 16, line 18, " $-(CR^b_2)-$ " should read — $-(CR^b_2)-$ —; and

column 16, line 31, " τ is 1 or 2," should read — τ is 1 or 2,—.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Jason D. Volght
NOVAC DRUCE DELUCA & QUIGG LLP
1300 I Street, N.W., Suite 400 East Tower
Washington, DC 20005

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US 6,852,662 B2

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R^c is C_1 - to C_{20} -alkyl, C_3 - to C_{10} -cycloalkyl, C_6 - to C_{15} -aryl or alkylaryl where the alkyl moiety is of 1 to 10 carbon atoms and the aryl moiety is of 6 to 15 carbon atoms,

r is 1, 2, 3 or 4,

r' is 1 or 2,

s and t are each 0, 1 or 2, where $1 \leq s+t \leq 3$

Z is a nonmetallic element from group VA of the Periodic Table of Elements,

M is a metal selected from the group VIIIB, IB or IIB of the Periodic Table of Elements,

E^1 and E^2 are each a nonmetallic element from group VA of the Periodic Table of Elements,

R^1 to R^4 are each linear or branched C_2 - to C_{28} -alkyl, C_3 - to C_{14} -cycloalkyl or alkylaryl where the alkyl moiety is of 1 to 28 carbon atoms and the aryl moiety is of 6 to 15 carbon atoms, each of which is substituted by at least one polar protic or ionic functional group based on elements of groups IVA to VIA of the Periodic Table of Elements,

L^1 and L^2 are formally charged or neutral ligands,

X are formally monovalent or polyvalent anions,

p is 0, 1, 2, 3 or 4,

m and n are each 0, 1, 2, 3 or 4,

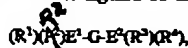
and $p=m+n$, and

b) optionally, one or more Lewis or protic acids or a mixture of Lewis and protic acids.

2. A process for the preparation of linear, alternating copolymers of carbon monoxide and α -olefinically unsaturated compounds, wherein the monomers are copolymerized in an aqueous medium in the presence

i) of a metal M selected from the group VIIIB, IB or IIB of the Periodic Table of Elements, which is present in salt form or as a complex salt,

ii) a chelate ligand of the formula (III)



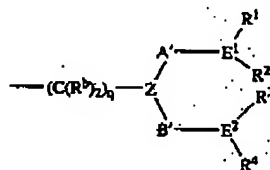
where

G is $-(CR^b)_r-$, $-(CR^b)_r-Si(R^c)_2-(CR^b)_r-$, $-A'-O-B'-$ or $-A'-Z(R^5)-B'-$,

R^5 is hydrogen or is C_1 - to C_{28} -alkyl, C_3 - to C_{14} -cycloalkyl, C_6 - to 15-aryl or alkylaryl where the alkyl radical is of 1 to 20 carbon atoms and the aryl radical is of 6 to 15 carbon atoms, each of which is unsubstituted or substituted by functional groups based on the elements of groups IVA, VA, VIA or VIIA of the Periodic Table of Elements, or is $-N(R^d)_2$, $-Si(R^d)_3$, or a radical of the formula IIa)

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tuted or substituted by functional groups based on the elements of groups IVA, VA, VIA or VIIA of the Periodic Table of Elements, or is $-N(R^d)_2$, $-Si(R^d)_3$, or a radical of the formula IIa)



(IIa)

where

q is an integer from 0 to 20 and the further substituents in (IIa) have the same meanings as in (III),

A' and B' are each $-(CR^b)_r-$ or $-(CR^b)_r-Si(R^c)_2-(CR^b)_r-$,

R^d independently of one another, are each C_1 - to C_{28} -alkyl, C_3 - to C_{10} -cycloalkyl, C_6 - to C_{15} -aryl or alkylaryl where the alkyl moiety is of 1 to 10 carbon atoms and the aryl moiety is of 6 to 15 carbon atoms,

R^b is the same as R^a or is hydrogen or $Si(R^c)_3$,

R^c is C_1 - to C_{20} -alkyl, C_3 - to C_{10} -cycloalkyl, C_6 - to C_{15} -aryl or alkylaryl where the alkyl moiety is of 1 to 10 carbon atoms and the aryl moiety is of 6 to 15 carbon atoms,

r is 1, 2, 3 or 4,

r' is 1 or 2,

s and t are each 0, 1 or 2, where $1 \leq s+t \leq 3$

Z is a nonmetallic element from group VA of the Periodic Table of Elements,

E^1 and E^2 are each a nonmetallic element from group VA of the Periodic Table of Elements, and

R^1 to R^4 are each linear or branched C_2 - to C_{28} -alkyl, C_3 - to C_{14} -cycloalkyl or alkylaryl where the alkyl moiety is of 1 to 28 carbon atoms and the aryl moiety is of 6 to 15 carbon atoms, each of which is substituted by at least one polar protic or ionic functional group based on elements of groups IVA to VIA of the Periodic Table of Elements, and

iii) optionally, one or more Lewis or protic acids or a mixture of Lewis and protic acids.

* * * * *